Year 9 Learning Map

- NUMBER
- ALGEBRA
- RATIO & PROPORTION
- STATISTISTICS/PROBABILITY
- GEOMETRY & MEASURE

Y10

Representations

- Probability trees
- Frequency trees
- Histogram (H)
- Two- way tables
- Types of graphs and charts
- Misleading graphs (H)
- Scatter graphs, line of best fit, and correlation
- Pie charts
- Tables and Timetable

Reasoning with Proportion

- Converting Compound Measures
- Enlargement by negative scale factors (H)
- Similar triangles (H)
- Conversion Graphs
- Ratio problems given part or whole
- Density
- Compound units
- Speed, Distance, Time

SUMMER

Reasoning with Geometry

- Enlargement by positive scale factors
- Similar Shapes
- Direct proportion problems and graphs
- Inverse proportion graphs (H)
- Combined Transformations (H)
- Pythagoras' Theorem
- Rotation
- Line Symmetry
- Pythagoras' Theorem in 3D (H)
- Angle Proofs (H)
- Translation
- Rotational Symmetry
- Angle Rules

Reasoning with Number

- Types of number
- Standard Form
- Finding percentage Change
- Best Buys
- Reverse Percentages (H)

SPRING

Constructing in 2 and 3 Dimensions

- HCF & LCM
- Percentage increase/decrease
- Wages and taxes
- Bills, Bank Statements and Interest
- Repeated Percentage change (H)
- Loci (H)
- Scale Drawing
- Nets
- Volume
- Naming Shapes
- Testing Conjecture
- Surface area of ANY prism (H)
- Constructing Perpendiculars and Bisectors
- Surface Area of cuboids and cylinders
- Faces, Edges, Vertices

Y8

- The data handling cycle
- DH
- Av
- Averages and Spread

Y9 AUTUMN

Reasoning with Algebra

- Finding equations of Straight lines
- Forming & Solving equations
- Changing the Subject (H)
- Interpreting Straight line graphs
- Sequences
- Solving Simultaneous Equations graphically (H)